

ABSTRACT

STANDARDIZATION RAW MATERIAL AND ETHANOL EXTRACT OF ANDROGRAPHIDIS HERBA (*Andrographis paniculata* Nees) FROM DISTRICT OF BOGOR AND TAWANGMANGU

Alvia Muri Prabowo

Sambiloto (*Andrographis paniculata* Nees) is one of medicinal plant which has long existed and used as ingredient of traditional medicine. This plant has many big potency to be developed in phytopharmaca industry. This requires standardization which can affect both the raw material's quality or extract which have been obtained based on the Indonesian Herbal Pharmacopeia method. From macroscopic test plant's trait can be obtained, that is elongated-ovate leaf shape, monopodial branching, white flower with petal like tube, oval-shaped fruit with a tapered tip, and irregular small seed. Whereas from microscopic test, it can obtained identifier fragment among others mesophyll with bone leaves and trichoma, xylem with thickening of ladder and dots, and stomata types.

Specific parameters of raw material from Bogor and Tawangmangu respectively ie water soluble extractive content ($17,41 \pm 0,429\%$) and ($16,16 \pm 0,992\%$), alcohol soluble extractive content ($9,98 \pm 0,088\%$) and ($10,29 \pm 0,327\%$), andrographolide content ($2,25 \pm 0,024\%$) and ($1,95 \pm 0,017\%$). Whereas non-specific parameters which includes lost on drying ($8,66 \pm 0,260\%$) and ($7,91 \pm 0,180\%$), total ash content ($11,81 \pm 0,056\%$) and ($11,34 \pm 0,523\%$), insoluble acid ash content ($0,09 \pm 0,081\%$) and ($0,53 \pm 0,022\%$). Specific parameters extract from Bogor and Tawangmangu respectively ie andrographolide content ($23,76 \pm 1,057\%$) and ($15,61 \pm 0,881\%$). Whereas non-specific parameters of extract i.e. water content ($12,28 \pm 0,429\%$) and ($9,97 \pm 0,006\%$), total ash content ($9,97 \pm 0,006\%$) and ($7,45 \pm 0,145\%$), insoluble acid ash content ($0,03 \pm 0,005\%$) and ($0,04 \pm 0,008\%$).

Keyword : standardization, raw material, ethanol extract, *Andrographis paniculata* Nees, Andrographis herbs